

**POLYMERIZATION CATALYST SYSTEM USING
n-BUTYLMETHYLDIMETHOXYSILANE FOR
PREPARATION OF POLYPROPYLENE FILM GRADE RESINS**

5

Abstract of the Disclosure

It has been discovered that using n-butylmethyldimethoxysilane (BMDS) as an external electron donor for Ziegler-Natta catalysts can provide a catalyst system that may prepare polypropylene films with improved properties. The catalyst systems of the invention provide for controlled chain defects/defect distribution and thus a regulated microtacticity. Consequently, the curve of storage modulus (G') v. temperature is shifted such that the film achieves the same storage modulus at a lower temperature enabling faster throughput of polypropylene film through a high-speed tenter.